7th Grade
1.2 +/-/x/÷ Fractions Review

Adding and Subtracting Fractions

must find a common denominator

1) $\frac{1}{3} + \frac{6}{7}$ → $\frac{7}{21} + \frac{18}{21}$ → $\frac{25}{21}$

2) $\frac{1}{2} - \frac{1}{4}$ → $\frac{2}{4} - \frac{1}{4} = \frac{1}{4}$

3) $5 - \frac{2}{3}$ → $\frac{15}{3} - \frac{2}{3} = \frac{13}{3}$

Multiplying Fractions

rule: multiply straight across

3) $\frac{5}{4} \cdot \frac{2}{3}$ → $\frac{10}{12}$ → $\frac{5}{6}$

4) $2\frac{3}{4} \cdot \frac{2}{3}$ → $\frac{11}{4} \cdot \frac{2}{3}$ → $\frac{22}{12} = \frac{11}{6}$

Multiplying Fractions

- divide out common factors in the #'s diagonal from each other, then multiply straight across.

5) $2\frac{2}{3} \cdot \frac{15}{8}$

$\frac{8}{3} \cdot \frac{15}{8} = \frac{5}{1} = 5$

6) $\frac{10}{1} \cdot \frac{3}{2} = \frac{15}{1} = 15$

Dividing Fractions

rule: keep, change, flip

7) $\frac{7}{5} \div 2\frac{1}{2}$

$\frac{7}{5} \cdot \frac{2}{5} = \frac{14}{25}$

8) $\frac{2}{1} \div \frac{16}{9}$

$\frac{2}{1} \cdot \frac{9}{16} = \frac{9}{8}$

Try this:

9) $\frac{7}{8} - \frac{1}{4}$

10) $\frac{2}{3} + 1\frac{1}{8}$

11) $\frac{3}{4} \cdot \frac{12}{7}$

12) $3\frac{2}{3} \div \frac{5}{6}$

Homework

Worksheet